



DEPARTMENT OF THE NAVY
OFFICE OF NAVAL RESEARCH
875 NORTH RANDOLPH STREET
SUITE 1425
ARLINGTON, VA 22203-1995

5720

Ser BD042/003

IN REPLY REFER TO:

ONR FOIA 15-066

October 15, 2015

Ms. Rose Santos
FOIA Group, Inc.

Ms. Santos:

This is a final response to the Freedom of Information Act (FOIA) request you sent to the Office of Naval Research (ONR) on January 9, 2015. We assigned your request ONR FOIA number 15-066. For your reference, I've attached a copy of your request.

In your request, you agreed to receive the clearly releasable portions of the requested documents. Parts of the records you requested have been redacted under 5 U.S.C. § 552 (b)(4), 5 U.S.C. § 552 (b)(5) and 5 U.S.C. § 552 (b)(6), better known as Exemptions 4, 5 and 6. We consider individual unit prices to be confidential commercial information exempt from disclosure under Exemption 4. The agency source selection documents contain deliberative process privileged information exempt from disclosure under Exemption 5. We also redacted signatures, which are personal information exempt from disclosure under Exemption 6. Since you indicated you are willing to accept clearly releasable information, we do not consider these redactions to be a denial, or partial denial, of your request.

The redacted documents are attached. We have classified you as a "commercial use" requester. As such, we may charge you for all search, review, and duplication costs for processing this request. However, we have not assessed you any fees for responding to your request.

If you have questions about this letter, please feel free to contact Mr. Jason Towns at (703) 696-5361 or jason.towns.ctr@navy.mil. Please reference ONR FOIA 15-066 when communicating with us about this case.

Sincerely,

Kathy Thompson
Kathy Thompson
FOIA Officer

Attachments:
As stated

Request Details**Status :** *Assignment Determination* **Due Date :** 02/09/2015

🕒 166 🔔

Submitted

Evaluation

Assignment

Processing

Tracking Number : DON-NAVY-2015-002328	Closed 01/09/2015	Submitted Date :
Requester : Rose Santos	01/09/2015	Perfected Date :
Organization : FOIA GROUP INC	08/11/2015	Last Assigned Date :
Requester Has Account : Yes		Fee Limit : \$55.00

Submission Details

Case File

Admin Cost

Assigned Tasks

Comments (1)

Review

Request Handling

Requester Info Available to the Public : <input checked="" type="checkbox"/>	Request Perfected : Yes
Request Track : 01/09/2015	Perfected Date :
Simple <input checked="" type="checkbox"/>	Appellate Authority : <input checked="" type="checkbox"/>
Commercial <input checked="" type="checkbox"/>	Fee Category : OGC
Fee Waiver Requested: No	Acknowledgement Sent Date: 1/9/15
Fee Waiver Status: N/A	Unusual Circumstances ? : No
Expedited Processing Requested : No	5 Day Notifications: <input type="checkbox"/>
Expedited Processing Status : N/A	Litigation : No <input checked="" type="checkbox"/>

Request Description

Short Description :

N0001409D0696 Order 003 [FGI# 45544]

Good morning, under the provisions of the Freedom of Information Act, I hereby request a copy of the following documents identified to N0001409D0696 Order 003 [FGI# 45544] (clearly releasable ok):

1. Contract modification # P0001, P0002 and P0003 with applicable SOW/PWS and attachments
2. Order 003, with applicable SOW/PWS and attachments
3. Agency Source selection decision documents identified to award of Order 003

Description Available to the Public : No ☒ Has Description Been Modified? ☐

Additional Information

Case # : ONR 15-033

Name of Local Command :

Contract/Sol.# :

Limit Request To Clearly Releasable Info : ☒ Select Limit Request To Clearly Releasable Info ☒

Attached Supporting Files

No supporting files have been added.

Upload Supporting Files

If you are having problems, or do not see the "Select Files" button, *switch to the basic uploader.*

No attachments have been added.

Task Order 0003 Source Selection Decision

Subj: Source Selection Decision for Integrated Topside (InTop) Solicitation Number N00014-10-R-0005 entitled, "Integrated Topside (InTop) Electronic Warfare/Information Operations/Line-Of-Sight Communication Advanced Development Model (ADM)"

- Ref:
- (a) Source Selection Plan dated 23 March 2010 and Amendments 01 through 03
 - (b) InTop Task Order (TO) 0003 Solicitation Number N00014-10-R-0005 issued on 24 March 2010 and Amendments 0001 through 0006
 - (c) Initial Technical Evaluation Team Report dated 16 July 2010
 - (d) Source Selection Advisory Committee Recommendation dated 16 July 2010
 - (e) Task Order 0003 Interim Cost Realism Analysis dated 22 July 2010
 - (f) Task Order 0003 Final Cost Realism Analysis dated 16 September 2010
 - (g) Final Technical Evaluation Team Consensus Reports dated 10 September 2010
 - (h) Source Selection Advisory Committee Recommendation dated 21 September 2010

Overview of Offerors' Technical Ratings:

Table 1 below provides the Technical Evaluation Team's technical ratings for all four offerors based on the final proposal revisions.

Table 1: Final Proposal Revision Adjectival Ratings

Offeror	Factor A* Understanding of Requirement and Demonstration of Capabilities	Factor B* Technical Approach/Management Plan	Factor C* Staff Qualifications: Key Personnel	Factor D* Corporate Facilities
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Overview of Offerors' Cost Analysis:

Table 2 below provides a summary of the final proposal revisions for all four offerors. The final cost analysis document (reference (f)) determined the final proposal revisions for cost submitted by each offeror to be fair and reasonable.

Table 2: Final Proposal Revision Cost Proposal Summary

Offeror	Cost	Fee %	Fee Dollars	COM	*Final Proposal Revision 23 August 2010	*Original Proposal dated 17 May 2010
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

Best Value Analysis:

The TO 0003 solicitation provided that the Offeror's technical capability, as measured by the Technical Factors, is the primary basis for selection. It also said that the first two Technical Factors, Understanding of Requirement and Demonstration of Capabilities and Technical Approach/Management Plan are of equal importance to one another, and each is of higher importance than the last two Technical Factors, Staff Qualifications: Key Personnel and Corporate Facilities which are also of equal importance. Finally, the solicitation said that all technical factors combined are significantly more important than the cost.

[REDACTED]

[REDACTED]

The C/PAT determined that all four offerors' cost proposals were eligible for award. However,

[REDACTED]

Taking all of this into consideration, I concur with the SSAC that the proposals submitted by

[REDACTED]

Source Selection Decision:

[REDACTED]

[REDACTED]

SUSAN SUTHERLAND
DIRECTOR,
CONTRACT AND GRANT
MANAGEMENT AWARDS
SOURCE SELECTION AUTHORITY

9/29/10
DATE

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO 01	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE ORDER NO 14PR01902-00	5. PROJECT NO (if applicable)
6. ISSUED BY Office of Naval Research ONR251 Lynn Christian 703 696 1575 Email: Lynn.Christian@navy.mil 875 North Randolph Street Suite W1275 Arlington VA 22203	CODE N00014	7. ADMINISTERED BY (if other than item 6) DCMA RAYTHEON 50 APPLE HILL DRIVE T2FR2 TEWKSBURY MA 01876-1198	CODE S2205A
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, state and ZIP Code) RAYTHEON COMPANY 50 APPLE HILL DR TEWKSBURY MA 01876		9A. AMENDMENT OF SOLICITATION NO (X) 10A. MODIFICATION OF CONTRACT/ORDER NO N00014-09-D-0696 0003 10B DATED (SEE ITEM 13) 09/24/2013	
CODE OAYP7	FACILITY CODE	11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS	

ORIGINAL

11. The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of offers is extended. "is not extended".
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)
See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACT/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF
	D. OTHER (Specify type of modification and authority)
X	This modification is issued in accordance with FAR 43.103(b) bilateral modification.

15. IMPORTANT: Contractor is not required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)

NAVAIS / SDN Number: 1106197

The purpose of this modification is to revise Section J entitled, "List of Documents Exhibits and Other Attachments" to incorporate a revised Statement of Work and a revised form D0254 entitled, "Department of Defense Contract Security Classification Specification" at no additional cost to the government under contract N00014-09-D-0696 task order 0003. The firm fixed price amount of this effort is \$6,000,000.

Except as provided herein all terms and conditions of the document referenced in item 8A or 10A, as heretofore changed, remains unchanged and in full force and effect.

NAME AND TITLE OF SIGNER (Type or print) [Signature] Contracts Manager	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Barbara L. Christian
16B. DATE SIGNED 11/26/2013	16C. DATE SIGNED 11/27/2013

NSN 7540-01-152-9070
Previous edition unusable

STANDARD FORM 29 (REV 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 01		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. 14PR01902-00	
6. ISSUED BY Office of Naval Research ONR251 Lynn Christian 703 696 1575 Email: Lynn.Christian@navy.mil 875 North Randolph Street Suite W1275 Arlington VA 22203		CODE N00014		5. PROJECT NO. (If applicable) 7. ADMINISTERED BY (If other than Item 6) DCMA RAYTHEON 50 APPLE HILL DRIVE T2FR2 TEWKSBURY MA 01876-1198	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) RAYTHEON COMPANY 50 APPLE HILL DR TEWKSBURY MA 01876		CODE OAYP7		FACILITY CODE 09/24/2013	
		9A. AMENDMENT OF SOLICITATION NO. (x)		9B. DATED (SEE ITEM 11)	
		10A. MODIFICATION OF CONTRACT/ORDER NO. N00014-09-D-0696 0003		10B. DATED (SEE ITEM 13)	
		11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS			

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 9 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted, or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) This modification is issued in accordance with FAR 43.103(b) bilateral modification

E. IMPORTANT: Contractor ☐ is not. ☒ is required to sign this document and return _____ 2 _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

NAVRIS / SDN Number: 1106197

The purpose of this modification is to revise Section J entitled, "List of Documents Exhibits and Other Attachments" to incorporate a revised Statement of Work and a revised form DD254 entitled, "Department of Defense Contract Security Classification Specification" at no additional cost to the government under contract N00014-09-D-0696 task order 0003. The firm fixed price amount of this effort is \$6,000,000.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Barbara L. Christian	
15B. CONTRACTOR/OFFEROR		16B. UNITED STATES OF AMERICA	
15C. DATE SIGNED		16C. DATE SIGNED	
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

NSN 7540-01-152-8070
Previous edition unusable

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

Readable Copy

SECTION J - List of Documents, Exhibits and Other Attachments

Attachment Number	Attachment Title	Date	Number of Pages	Cross Reference Materials	Document Version
1	Statement of Work	11/19/2013	9		01
3	Department of Defense Contract	11/19/2013	2		01

Statement of Work
Enterprise Air Surveillance Radar (EASR) Study REV 1
Task Order 0003

1. Background

Issues of obsolescence and diminishing manufacturing resources (DMS) are becoming critical for both the AN/SPS-48E/F and AN/SPS-49A(V)1 radars. This affects both logistic support and new ship construction. As a result, the Government has identified the need for developing a new radar which will assume the capabilities of both the AN/SPS-48 and the AN/SPS-49 radars for both backfit on existing ships and forward fit for new ship construction. This new radar will be referred to as the Enterprise Air Surveillance Radar (EASR).

The EASR envisioned must meet the aggregate performance needs of the different candidate ship classes for ship self-defense, situational awareness, and air traffic control, but will not necessarily represent a superset of current SPS-48/49 requirements. The requirements for EASR are listed in Reference Number 5.1 entitled, "Reliability, Availability, and Maintainability", Reference Number 5.2 entitled, "Shipboard Environmental Parameters", Reference Number 5.3 entitled, "SPS-48/49 Size, Weight and Power Values" and Reference Number 5.4 entitled, "EASR Performance Requirements Weapon". Support is limited to coarse designations to multi-function radars (e.g. AN/SPY-3) or tracking illuminators (e.g. Mk 95) as well as to launchers (e.g. Rolling Airframe Missile (RAM), and Evolved Sea Sparrow Missile (ESSM)). There is no requirement for mid-course guidance and/or slaved illumination. The Government considers either L-band (1215-1400 MegaHertz (MHz)) or S-band (2900-3400 MHz) as the most likely operating band for this radar, but other bands may be considered.

Affordability of the new EASR radar is a major consideration for this solicitation and the requirements listed reflect performance trade-offs deemed necessary to achieve cost goals.

In back fit installation, above deck equipment with a weight and footprint (Reference 5.3 entitled, "SPS-48/49 Size, Weight and Power Values" similar to that of the combined AN/SPS-48 or AN/SPS-49 systems may represent the most desirable solution. In forward fit new construction, commonality of antenna/sub-array/subsystems with the back fit system are desired to the extent practical.

Smaller versions of the EASR scaled from the primary system, that could be used on smaller Navy ships as well as U.S. Coast Guard vessels must also be addressed during the EASR study. Two (2) examples for sizing these scaled versions are to reduce the range and altitude requirements specified for the primary system in the classified addendum to 70% in one variation and 50% in the other variation of the values against the same targets. As appropriate for the scaled variants, corresponding reductions in clutter improvement factor, dynamic range, and accuracy are acceptable. Scalability will ensure that the antenna technology used in both concepts will be common.

The AN/SPS-48/49 radar suite provides air surveillance capability on eleven (11) "Big Deck" Amphibious Assault Ships LHD/LHA and eleven (11) Aircraft Carrier (CVN) platforms and these are all candidates for the EASR backfit. The AN/SPS-49 is installed separately from the AN/SPS-48 on twelve (12) Landing Ship Dock (LSD)-class ships scheduled to retire by 2035 and four (4) land sites. No backfit requirements exist for these SPS-49 radars. The AN/SPS-48 is installed separately from the AN/SPS-49 on twelve (12) Amphibious Transport Docks (LPD)-class ships and six (6) land sites. These are candidates for an EASR backfit. For new ship construction it is noted that the U.S. Navy intends to maintain a fleet of eleven (11) each of the LHD/LHA class and of the CVN class by building one each every five (5) years, with fifty (50)-year service-life expectancies. The smaller variant is a candidate for new Coast Guard Cutters and for the Littoral Combat Ship (LCS).

2. Objective

The objective of Task Order (TO) 0003 is to identify radar concepts for which a substantial hardware base already exists and to show by analysis and/or incremental hardware development and demonstration how this radar concept can be evolved to meet the stated EASR requirements. A combination of analysis, combined with prototyping of critical subsystems and/or technology components to demonstrate risk reduction of any upgrades proposed to the existing radar system, and

testing as applicable to risk reduction demonstration will be conducted. The contractor shall determine the mix of analysis, hardware prototyping, and test which provide the highest level of risk reduction for the EASR system.

3. Requirements

The contractor shall commit the following capital investment equipment, which includes servers, switches, storage, software, other IT equipment pertinent to the demonstration phase, and some modifications to the contractors Far Field Test Range in Pelham, NH necessary to support the EASR demonstration. In addition, for the purpose of conducting the demonstration, the contractor shall provide the entire front end electronics from their Closed Loop Track Demo (CLTD), a previous company funded demonstration program. This investment includes the Radiator Panel, Overlap Beamformer, Radar Modular Assembly (RMA), Transmit/Receive Integrated Multichannel Modules (TRIMMs), and Digital Receiver/Exciter Modules.

The contractor shall perform the following tasks.

3.1 Description of Existing Radar System

The contractor shall present an in-depth description of the existing radar system at the Kick-Off meeting. The contractor proposed EASR Concept is based upon the Radar Modular Assemble (RMA) architecture matured and demonstrated on Air and Missile Defense Radar (AMDR) and the software design developed and demonstrated on Dual Band Radar (DBR). The contractor shall provide an in-depth description of the leveraged RMA architecture and the DBR software at the kick-off meeting. The presentation shall provide:

- 3.1.1 A description of the proposed EASR system architecture and subsystem definitions including identity with configuration items from legacy programs.
- 3.1.2 EASR predicted performance relative to the EASR requirements.
- 3.1.3 Discussion of EASR ship fit including SWAP (space, weight & power), environmental performance and supportability.
- 3.1.4 An in-depth description of the RMA architecture and the DBR software architecture.
- 3.1.5 A description of the maturity of all existing hardware, software, and firmware items including demonstrated performance and manufacturing and technical maturity levels.

The contractor shall deliver the Existing Radar System Detailed Design Description in accordance with CDRL A003.

3.2 Proposed EASR System

Building on the characteristics of the existing radar system, the contractor shall develop an approach for evolution of the radar to meet the requirements of the EASR system, which will be referred as the "Proposed EASR System". Utilizing the RMA architecture and the DBR software the contractor shall develop the proposed EASR concept to a preliminary design level. This shall include the design of a full size, tactical array structure, pedestal and rotary joint.

The contractor shall perform study tasks which shall provide the following outputs:

- 3.2.1 A detailed description of the required modifications to the existing AMDR & DBR hardware, software and firmware items to meet the EASR performance, ship fit and environmental requirements. This shall include the assessment of the associated development cost and schedule.
- 3.2.2 A detailed description of ship fit requirements for both back fit on existing platforms and forward fit on new ship construction. This shall include estimates of topside weight and a center of gravity assessment compared with the current SPS-48/49 systems, swing circle or superstructure size, and prime power requirements.
- 3.2.3 The contractor shall provide a preliminary design for any adaptations required to meet the specified environmental requirements.

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- 3.2.4 An assessment of the cost impact (development and recurring) and suggested relaxation of EASR requirements. Additionally, the contractor shall evaluate the cost impact of any requirements which necessitate modification of the existing hardware items.
- 3.2.5 An approach to providing a flexible external interface to the Combat Management System (CMS) which will readily support pub/sub for forward fit and adaption to legacy back-fit ship interfaces.
- 3.2.6 The contractor shall provide developmental cost and schedule estimates for any EASR performance parameter or functionality that requires development beyond the existing RMA radar system.
- 3.2.7 An assessment of the Reliability, Availability and Maintainability performance (reference 5.1 entitled, "Reliability, Availability and Maintainability") based on 120-day missions without critical failure. This will include the development of proposed criteria for defining a critical failure for the EASR System, and in particular the Antenna Subsystem.
- 3.2.8 Development of the EASR Open System Architecture approach by continuing the Open Systems Architecture approaches implemented on AMDR and DBR.

3.3 Studies

The contractor shall perform studies to address scalability of the Proposed EASR System radar including a three (3) face fixed variant and scaled rotators to meet lesser stressing requirements for the Coast Guard Cutters and Littoral Combat Ship (LCS). The studies will:

- 3.3.1 Establish commonality between the three (3) versions of the radars to reduce development and recurring costs.
- 3.3.2 Address performance, cost, and ship-fit issues such as size, weight and prime power.
- 3.3.3 Establish system performance based on equivalent detection range for the 3 face fixed variant and detection coverage of a 50% and 70% of the baseline EASR range and altitude coverage requirements for the scaled variants. Other variants may be considered for specific ship classes. EP requirements for each of the variants will also be assessed.

The contractor shall present the results of the EASR Trade Studies to the Government five (5) months after TO award.

The contractor shall develop and deliver a proposed EASR System Description Document in accordance with CDRL A004.

3.4 Performance Assessment of Proposed EASR System

The contractor shall perform a detailed study assessing the performance of the Proposed EASR System. If different versions are proposed for backfit and forward fit, both shall be analyzed to the same level of detail. The contractor shall develop the proposed EASR concept to a system preliminary design level. The assessment shall include a performance parameter compliance matrix documenting the proposed system's ability to meet the individual EASR parameters. This must clearly identify which capabilities will be met by the proposed radar system. As part of the system design effort, the contractor shall assess compliance to all EASR requirements including performance, environmental and SWAP.

As part of the system design effort the contractor shall perform the following system assessments/studies and present the following results to the Government nine (9) months after TO award: A Proposed EASR System Radar Performance Study Report shall be submitted in accordance with CDRL A006.

- 3.4.1 The contractor shall provide a detailed Blake Chart including transmit power, transmit antenna gain, receive antenna gain, all ohmic and non-ohmic losses, and the system noise temperature. For ease of comparisons between concepts, the reference point for antenna gains and noise temperature shall be the plane directly in front of the antenna aperture. The Blake Chart shall represent a typical search dwell used at low elevation and specified azimuth. Extrapolating from the existing SPS-48 and SPS-49 radars it is required that contacts provided to the combat system tracker in each search frame have fully resolved range and Doppler ambiguities. The losses resulting from this ambiguity resolution process, including the effect of blind ranges and blind Doppler frequencies, shall be included. Furthermore, a detailed breakdown of all processing losses including antenna beam shape losses, pulse compression weighting, range straddling, Doppler straddling, Doppler weighting, Constant False Alarm Rate (CFAR) loss, beam shape, and array scan losses, shall be included and substantiated. A detailed Blake Chart is desired for each configuration of the system.
- 3.4.2 The contractor shall develop the detailed Blake Chart for the EASR baseline and three (3) variants (two (2) scaled variants of the rotator and the three (3) faced fixed variant). The Blake Chart shall be developed based on the performance of the AMDR EMD hardware. The Blake Chart shall represent typical search dwell for low elevation and will include system losses including Doppler ambiguities, beam shape loss, CFAR, etc. A detailed breakdown of all of the losses shall be provided to the Government. No special modes are required for the contractor EASR Concept, but Blake Charts characterizing the performance of each mode, of this multi-mission radar system, shall be developed.
- 3.4.3 If the proposed radar system needs to implement special modes to meet specific mission requirements, the contractor shall include a description of these different operating modes as well as the resulting impact on the ability of the radar to perform its primary mission.
- 3.4.4 The contractor shall provide a description of the waveforms used for system search and track (i.e. Pulse Doppler, Moving Target Indicator (MTI), single pulse, etc.). This shall include a description of the number of pulses transmitted per coherent processing interval, number of fill pulses used, number of pulses coherently processed, waveform bandwidths and modulation schemes used to support pulse compression, etc. in each waveform.
- 3.4.4.1 The contractor shall provide a detailed waveform table for each mode of the EASR system. The waveform table will be derived from the AMDR and DBR waveform tables.
- 3.4.5 The contractor shall provide a description of radiated energy versus search volume as it relates to covering the required surveillance volume in the specified frame time. For phased array radars the contractor shall describe the fraction of the frame time, which will be allocated to special track dwells.
- 3.4.4.2 EASR System Search concept of operations (CONOPS) for the EASR baseline and the three (3) variants. The contractor shall provide a detailed description of radiated energy versus search volume to achieve the required surveillance volume in the specified frame time.
- 3.4.6 The contractor shall describe the strategy for meeting the requirement for detection of small, slow targets (Unmanned Aerial Vehicles (UAVs) and other slow, aerial targets) at low altitude in the littoral clutter environment (sea and bird returns). The contractor shall discuss the following:
- 3.4.6.1 Discuss any additional waveforms or modes that are required.
- 3.4.6.2 Discuss how false alarm rates will be regulated to an acceptable level.
- 3.4.6.3 Discuss handling of track initiation.
- 3.4.6.4 Discuss how the radar will simultaneously meet requirements for detection of all threats.
- 3.4.6.5 The contractor shall provide an EASR System CONOPS for the detection and tracking of small, slow targets (UAVs) and other slow, aerial targets at low altitude in the littoral clutter environment (sea and bird returns). The EASR approach will leverage the DBR and AMDR CONOPS for the detection and tracking of similar targets. The presentation to the Government will include the waveforms utilized, false alarm mitigation techniques, track initiation and radar resource utilization for simultaneous operation in a multi-mission role.

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- 3.4.7 The contractor shall provide a description of the system tracking strategy (track while scan, dedicated tracking, some combination of the two, etc.). The contractor shall describe the maximum number of tracks that can be accommodated in each mode.
3.4.7.1 EASR Tracking CONOPS including a description of the system tracking strategy and the maximum number of tracks. The EASR CONOPS is derived from DBR and AMDR.
- 3.4.8 The contractor shall discuss dynamic range and out-of-band blocking performance of the proposed radar design. The contractor shall describe in-band linearity performance (Third Order Intercept (TOI) dynamic range) and spur-free dynamic range.
3.4.8.1 EASR Hazardous Weather CONOPS derived from DBR.
3.4.8.2 EASR System receive performance, including out-of-band blocking, in-band TOI and spur free dynamic range, based on AMDR EMD hardware performance.
- 3.4.9 The contractor shall state the radar operating frequency range of the proposed system. The contractor shall specifically identify the number of frequency channels available for operation, the minimum number of frequencies required for operation, and the frequency or range separation required for two identical radar systems located on different ship platforms to operate in close proximity without degradation. As frequency selection must address the electromagnetic environment in which the radar has to operate, the contractor shall discuss the ability of the system to operate in the relevant naval environment.
3.4.9.1 The contractor shall provide the EASR CONOPS for frequency management including operational frequency range and the number of frequency channels.
3.4.9.2 The contractor shall provide assessment of EASR interoperability based on frequency management, out-of-band emissions, antenna sidelobe/notch levels and in-band TOI. Assessment will be based on AMDR EMD hardware performance
- 3.4.10 The contractor shall describe electronic protection features included in the radar design. This shall include antenna sidelobe levels and sidelobe cancellation against stand-off jamming and a discussion of techniques proposed to counter responsive jamming. Raytheon shall describe sidelobe blanker designs and their ability to operate effectively in a jamming environment.
3.4.10.1 The contractor shall provide the EASR EP CONOPS and associated impact assessment for the specified responsive and stand-off jammers. EASR EP approach will include the use of a blanker array, antenna sidelobe control, adaptive beamforming and processing techniques. The EASR hardware performance, such as channel pair cancellation ratio, is based on AMDR EMD hardware performance. The EASR CONOPS leverages the CONOPS and processing techniques from AMDR and DBR.

The contractor shall develop and deliver the Proposed EASR System Radar Performance Study Report in accordance with CDRL A006.

3.5 Cost Study for Proposed EASR System

Leveraging the AMDR Total Ownership Cost (TOC) model, the contractor shall develop a detailed EASR TOC based on the assumptions/guidelines provided in reference number 5.6 entitled, "Framework for the Total Ownership Cost Model". AMDR supplier quotes and cost projections will be used for EASR subassembly costs where applicable. The TOC will be used to identify system cost drivers to enable the identification and execution of appropriate trade studies.

The contractor shall conduct the following cost study trades:

- 3.5.1 Radar Sensitivity / Range – the contractor shall perform parametric evaluation of cost, weight and power versus required sensitivity/range requirements.
3.5.2 Radar Duty Cycle – the contractor shall evaluate system level performance/cost impact of operating the EASR at a higher duty cycle. The AMDR based hardware supports radar duty cycles which are significantly higher than the EASR baseline.

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3.5.3 System Reliability – the contractor shall evaluate the cost impact of adding various levels of redundancy and condition based maintenance to achieve different mean time between critical failures (MTBCF) and on-board sparing requirements. The contractor shall perform parametric evaluation of acceptable graceful degraded performance and contiguous mission length definitions on MTBCF and cost.

3.5.4 Radar Electronic Protection – The contractor shall evaluate the cost impact of providing various levels of electronic protection. Electronic Protection requirements shall impact the backend processing requirements and the number of auxiliary channels in the array.

3.5.5 Liquid Rotary Joint - The liquid rotary joint is one of only two critical technology risks that need to be mitigated prior to entering EMD. Along with conducting testing, the contractor shall evaluate the system cost/performance impacts of locating the chiller/heat exchanger above the rotary joint and changing to a three (3) face fixed system.

The TOC model shall include a detailed list of assumptions, the analytical approach for each element of cost and provide a cost summary by life cycle phase. The TOC Model shall be fully documented and shall be used for system design trades. The contractor shall describe its analytical approach and cost methodology associated with each WBS element within the TOC Model. The TOC model shall present cost in current year and then year dollars based on the Defense Contract Audit Agency (DCAA) Forward Pricing Rate Agreement.

The contractor shall present the TOC model to the Government nine (9) months after TO award.

The contractor shall develop and deliver the TOC Model to the Government in accordance with CDRL A008.

3.6 Risk Reduction Demonstration

The contractor shall conduct a system level demonstration to verify system level operational performance and to reduce the risk associated with conducting an EMD phase. The EASR Demonstration System shall be a full size array structure, pedestal and rotatory joint, designed to tactical requirements, populated with one fully active RMA. The RMA will utilize AMDR Technical Demonstration revision hardware. The contractor shall conduct the following risk reduction demonstrations with the EASR Demonstration System:

- 3.6.1 Rotary Joint – The contractor shall demonstrate rotary joint with twenty 10 gigabit (GbE) fibers, power slip ring, and coolant rotary joint.
- 3.6.2 Rotating track while scan in clutter – The contractor shall demonstrate rotating track while scan in clutter.
- 3.6.3 Rotating track slow moving targets – The contractor shall demonstrate tracking of slow moving targets while rotating.
- 3.6.4 Rotating clutter mapping – The contractor shall demonstrate clutter mapping while rotating.
- 3.6.5 Ghost track rejection while rotating – The contractor shall demonstrate no ghost tracks while rotating.

The Government Team is an integral member of the contractor integrated product team (IPT) structure and will be invited to attend all demonstration events. The contractor shall present the Risk Reduction Demonstration Plan to the Government five (5) months after TO award.

The contractor shall develop and deliver the Risk Reduction Demonstration Plan and Results Report in accordance with CDRL A009.

3.7 Program Management Plan

The contractor shall conduct program management including program control using its Integrated Product Development System (IPDS) for management, control, and reporting as a guide. The contractor shall perform and report earned value monthly. Program risks and opportunities shall be continuously monitored and reported at each major meeting.

The contractor shall develop a Program Management Plan (PMP) in accordance with CDRL A007. Progress against the PMP will be reported at each Program/Technical Review.

The contractor shall provide Monthly Progress Reports in accordance with CDRL A001.

3.8 Reviews and Meetings

The contractor shall conduct, at a minimum, the following meetings in a fully collaborative development environment.

3.8.1 Kickoff Review. **Within forty-five (45) days after TO award**, the contractor shall host a kick-off meeting at their facility in Sudbury, MA, or other, mutually agreed upon location, for the purpose of reviewing the program requirements; the contractor's technical and management plans (including PMP); the approach to modifying the existing radar system to meet the Government requirements; and the detailed schedule with a detailed contract work breakdown structure (CWBS) that is directly traceable to the overall program schedule to provide visibility and accountability to the lowest level necessary to reflect the way the work is being performed. This kick-off meeting will serve as the venue for reporting the complete "Description of the Existing Radar System". The meeting materials shall be submitted in accordance with CDRL A002.

3.8.2 Final Review and final report. No later than seventeen (17) months after TO award, the contractor shall host a Final Review at their facility in Sudbury, MA, or other, mutually agreed upon location. The contractor shall review all studies and risk reduction demonstrations performed during the execution of this TO. The Final Review will also include a discussion of any remaining development and/or technology risks requiring further maturation/mitigation necessary for transition from the design phase into fabrication, integration and testing. The meeting materials shall be submitted in accordance with CDRL A002. A Final Report shall be delivered in accordance with CDRL A005.

3.8.3 Program Reviews/Technical Reviews. The contractor shall conduct Program Management and Technical Reviews at their facility in Sudbury, MA, or other mutually agreed upon location every four (4) months beginning five (5) months after TO award. At each review, the contractor shall provide progress in concept development and performance estimates, updates on risk reduction plans and emerging results, an update of program risk assessments, program and schedule status, and a review of contract deliverables. The contractor shall also provide program status measured against the baseline Program Management Plan (PMP). Presentation materials shall be submitted in accordance with CDRL A002.

3.8.4 Technical Interchange Meetings (TIMs). At least one (1) TIM will be conducted between the Program Reviews. During those TIMs, the contractor shall provide progress updates. In addition, the contractor shall support any coordination meetings and telephone conversations with the Office of Naval Research (ONR), Naval Sea Systems Command Program Executive Office Integrated Warfare Systems 2.0 (NAVSEA PEO IWS 2), Naval Research Laboratory (NRL), and other appropriate Government representatives. TIM meetings may be conducted remotely and/or at any location mutually agreed upon. The location of Reviews and Meetings may be changed as mutually agreed upon between the Government and the contractor. Presentation materials shall be submitted in accordance with CDRL A002.

3.9 Security

The contractor's facilities shall include appropriate classified document storage and control. The contractor Key Personnel shall possess a minimum of a SECRET level clearance.

All technical data submitted shall be marked as follows:

DISTRIBUTION C. Distribution authorized to U.S. Government agencies and their contractors; Administrative/operational use. Critical Technology; 23 Jan 2013. Other requests shall be referred to NAVSEA PEO IWS 2.

3.10 Program Management

The contractor shall assign a qualified Program Manager (PM) who shall have complete responsibility for the planning, execution, control and reporting of all aspects of the program, and for directing in-house and sub-contractors' efforts. The PM shall ensure that the necessary controls are appropriately applied to in-house hardware, software, firmware and interface development and its associated support efforts (e.g., design reviews, safety program, product assurance, Configuration Management (CM), financial management and subcontract management). The PM shall be provided with the necessary authority to utilize the company's resources to ensure the program is accomplished within price, on schedule and within specified technical performance parameters.

3.11 Performance Metrics.

The contractor shall assess performance by identifying metrics to measure technical, price and schedule performance. The contractor shall develop and present these metrics at the Kick-Off Meeting (paragraph 3.8.1 entitled "Kick-Off Review"). Following approval by the Government, the approved set of metrics shall be incorporated into the PMP (CDRL A007) and used to report program progress at subsequent Program Reviews and in Monthly Progress Reports (Technical) in accordance with CDRL A001.

3.12 Use of Existing Corporate Plans, Policies, and Procedures

The contractor is encouraged to use existing corporate plans, policies and procedures (as appropriate) in response to the CDRL deliverable requirements. If existing documents fail to adequately address the requirements, the corporate documentation may be modified as appropriate and submitted. Copies of plans, policies and procedures shall be provided to the Government upon request.

3.13 System Architecture

The Proposed EASR system architecture shall be based on Modular Open System Approach (MOSA) principles using open standards and open interfaces to provide rapid and affordable insertion and refreshment of technology through modular design. MOSA applies to all systems (hardware, software, firmware) developed or procured by the contractor for this TO.

The following information shall be presented at program reviews and TIMs, as appropriate:

3.13.1 Provide recommendations, with appropriate rationale, regarding the level of systems design beyond which industry should retain Intellectual property rights and the resulting impact on affordability or open characteristics of the system.

3.13.2 Provide documentation on all key interfaces within the system and identify, with rationale, any interfaces that are not open and also identify all specific standards that have been and are to be

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implemented for the key interfaces. Hardware key interfaces will include but not be limited to all interfaces associated with system components.

3.13.3 Identify all Hardware and all Software/Firmware components within the system, and document how the selected components provide for scalability and sustainment of the system.

3.13.4 Identify any license requirements associated with Commercial Off the Shelf (COTS) or Non-Developmental Item (NDI) components

3.14 Environmental

3.14.1 Marine Environment

The Proposed EASR system will be permanently installed in a shipboard environment. The Proposed EASR system design shall address the marine environment and shall include consideration of vessel motion and impacts from exposure to atmospheric pressure, humidity, wind, ice, snow, solar radiation, salt spray, sand, hail and dust as described in reference number 5.2 entitled, "Shipboard Environmental Parameters". In the event that an existing system that does not meet the reference shipboard environmental specifications is used as a starting point for the construction of EASR, a detailed description of the required tasks and activities to make the system compliant shall be provided at one of the program reviews.

3.14.2 Radiation Hazards

The contractor shall assess the Proposed EASR system peak and average power density data to determine the intensity of electromagnetic fields in the near and far field zones and to facilitate development of the necessary radiation controls and procedures required to ensure safe shipboard installation. The contractor shall use this data to calculate safe distances for Hazards of Electromagnetic Radiation to Ordnance (HERO), Hazards of Electromagnetic Radiation to Fuel (HERF), and Hazards of Electromagnetic Radiation to Personnel (HERP) respectively as described in NAVSEA OP 3565. This information shall be provided at the first program review meeting. The meeting materials shall be submitted in accordance with CDRL A002.

3.15 Internet Digital Collaboration Site

The Government will establish and maintain an Internet Digital Collaboration Site (IDCS) for the duration of the contract that the contractor shall use for the purpose of providing secure digital file storage and exchange between the government and Contractor team members. Both classified and unclassified portions of the IDCS will be maintained. The contractor shall post all contract materials to the IDCS.

4.0 Deliverables

4.1 Monthly Progress Reports (Technical); (CDRL A001)

4.2 Meeting Materials (Kick-off, Program/Technical Reviews, TIMs, and Final Review); (CDRL A002).

4.3 Existing Radar System Detailed Design Description Report; (CDRL A003).

4.4 Proposed EASR System Description Document (SDD) Report; (CDRL A004).

4.5 Final Report; (CDRL A005).

4.6 Proposed EASR System Radar Performance Study Report; (CDRL A006).

4.7 Program Management Plan (PMP); (CDRL A007).

4.8 Total Ownership Cost (TOC) Model; (CDRL A008).

4.9 Risk Reduction Demonstration Plan and Results Report; (CDRL A009).

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5.0 References

The following attachments from solicitation N00019-13-R-0004 are cited herein and are incorporated into this supplemental statement of work by reference.

5.1 Reliability, Availability, and Maintainability (Attachment 6)

5.2 Shipboard Environmental Parameters (Attachment 7)

5.3 SPS-48/49 Size, Weight and Power Values (Attachment 8)

5.4 EASR Performance Requirements (Attachment 9)

5.5 Framework for the Total Ownership Cost Model (Attachment 11).

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				1. CLEARANCE AND SAFEGUARDING SER:151-13 a. FACILITY CLEARANCE REQUIRED <div style="text-align: center;">SECRET</div> b. LEVEL OF SAFEGUARDING REQUIRED <div style="text-align: center;">SECRET</div>																																																																																					
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12. **PUBLIC RELEASE.** Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release ☐ Direct ☒ Through (Specify)

Office of Naval Research, Ms. Betsy DeLong, ONR 31, One Liberty Center, 875 N. Randolph Street, Arlington, VA 22203-1995

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)* for review.
*In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. **SECURITY GUIDANCE.** The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)

* This DD254 is being revised to allow access to Non-SCI Intelligence information and SIPRNET access.

- 10.g: Personnel shall be NATO BRIEFED (for SIPRNET purposes only) prior to establishing a SIPRNET account if access is required at a facility that uses a NATO accredited network.

- 11.c: Only IS's approved by DSS shall be used to generate classified information.

1. Information generated under this contract shall be classified in accordance with:

OPNAVINST 5513.8 SCG ID#08-03.1 Unclassified ECM/ECCM, General 04/1989

OPNAVINST 5513.8 SCG ID# 08-18.1 Unclassified RADAR, GENERAL 11/12/1998

DoD M-5200.01 Volume 4, DoD Information Security Program: Controlled Unclassified Information (CUI) of 2/24/12

Additionally, all classified material derived from other classified sources will perpetuate the highest classification and any special caveats pertaining thereto.

2. Document preparation and distribution shall be only as prescribed by the Program Officer.

3. The attached FOUO and Intelligence Information Sheets are hereby made a part of this DD 254.

4. To obtain documentation/information submit requests to official listed in 16.a below.

5. Forward copies of any subcontractor DD254's issued incident to this contract to the official shown in item 16.a below.

ONR Program Officer:

Office of Naval Research,

Ms. Betsy DeLong, ONR 31

OLC, 875 N. Randolph Street,

Arlington, VA 22203-1995

(703) 588-0069; Email: betsy.delong@navy.mil

PEO-IWS Program Officer:

Program Executive Office-Integrated Warfare System 2

Mr. Dennis J. Cole

1333 Isaac Hull Avenue SE, Building 197

Washington Navy Yard, DC 20376

(202) 781-1996; Email: dennis.j.cole@navy.mil

14. **ADDITIONAL SECURITY REQUIREMENTS.** Requirements, in addition to ISM requirements, are established for this contract. ☐ Yes ☒ No
(If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use item 13 if additional space is needed.)

15. **INSPECTIONS.** Elements of this contract are outside the inspection responsibility of the cognizant security office. ☐ Yes ☒ No
(If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use item 13 if additional space is needed.)

16. **CERTIFICATION AND SIGNATURE.** Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL

Diana Pacheco [diana.pacheco@navy.mil]

b. TITLE

Contracting Officer for Security Matters

c. TELEPHONE (Include Area Code)

(703) 696-8177

d. ADDRESS (Include Zip Code)

Office of Naval Research

One Liberty Center, 875 N. Randolph Street

Arlington, VA 22203-1995

17. **REQUIRED DISTRIBUTION**

☒ a. CONTRACTOR

☐ b. SUBCONTRACTOR

☒ c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR

☐ d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION

☐ e. ADMINISTRATIVE CONTRACTING OFFICER

☒ f. OTHERS AS NECESSARY ONR 31, 43, 25


INTELLIGENCE INFORMATION SHEET

1. The material does not become the property of the contractor and may be withdrawn at any time. Upon expiration of the contract, all intelligence released and any material using data from the intelligence will be returned to the releasing contracting command or activity [Chief of Naval Research (ONR 43)] for final disposition unless retention is authorized. The contracting command or activity [Chief of Naval Research (ONR 43)] will provide a copy of the retention authorization to ONI-5.
2. Contractors will not release the intelligence material to any activity or person of the contractor's organization not directly engaged in providing services under the contract or to another contractor (including sub-contractors), government agency, private individual, or organization without prior approval of the originator of the material, as outlined in governing directives, and prior approval and certification of need-to-know by the designated project manager/contract sponsor [Chief of Naval Research (ONR 43)].
3. Intelligence material will not be released to foreign nationals or immigrant aliens who may be employed by the contractor, regardless of the level of their security clearance or access authorization, except with the specific permission of ONI-5 requested via the Chief of Naval Research (ONR 43).
4. Intelligence material will not be reproduced without prior approval of the originator. All intelligence material shall bear a prohibition against reproduction while in the custody of the contractor.
5. Contractors will maintain records which will permit them to furnish, on demand, the names of individuals who have access to intelligence material in their custody.

Contract Distribution Sheet

CR Number: 14PR01902-00
Contract Number: N0001409D06960003
Specialist: NO NEG ONR: BD251
Modification Number: 01

Distribution Date: NOV 27 2013

Distributed By: 

___ PCO, ONR Arlington (Original)

___ Contractor (Duplicate Original)

Short Contractor Code and Address:

RAYN
RAYTHEON COMPANY
RAYTHEON COMPANY - IDS 50 APPLE HILL DR
TEWKSBURY, MA 01876-6114 US

___ ACO

ACO MILSCAP Code and Address:

S2205A
DCMA RAYTHEON-S2205A
50 APPLE HILL DRIVE T2FR2
TEWKSBURY, MA 01876 US

___ Payment Office

DODAAD Code and Address:

HQ0337
DFAS COLUMB. NORTH ENTL-HQ0337
PO BOX 182266
COLUMBUS, OH 43218-2266 US

___ ONR:
00CC

Program Officer: DELONG, MS. BETSY B, ONR Other

EDA only
11/27/2013

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO 02		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. 14PR01902-01	
6. ISSUED BY Office of Naval Research ONR251 Lynn Christian 703 696 1575 Email: Lynn.Christian@navy.mil 875 North Randolph Street Suite W1275 Arlington VA 22203		CODE N00014		7. ADMINISTERED BY (If other than Item 6) SCD-C DCMA RAYTHEON 50 APPLE HILL DRIVE T2FR2 TEWKSBURY MA 01876-1198	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) RAYTHEON COMPANY 50 APPLE HILL DR TEWKSBURY MA 01876		(x)		9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11)	
ORIGINAL		X		10A. MODIFICATION OF CONTRACT/ORDER NO N00014-09-D-0696 0003	
				10B. DATED (SEE ITEM 13) 09/24/2013	
CODE 0AYP7		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended ☐ is not extended ☐ Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
N/A

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF
	D. OTHER (Specify type of modification and authority)
X	This modification is issued in accordance with FAR 43.103(b) unilateral modification

E. IMPORTANT: Contractor ☒ is not ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

NAVRIS / SDN Number: 1106197

The purposes of this modification are as follows:

1. Revise Section E entitled, "Inspection and Acceptance" to replace Ms. Ana Diaz with Mr. Dennis Cole as the inspection and acceptance official;
 2. Revise Section G entitled, "Contract Administration Data" paragraph number 5 entitled "WAWF email notifications" to replace Ms. Ana Diaz with Mr. Dennis Cole;
 3. Revise Section H entitled, "Special Contract Requirements" ONR clause ONR 5252.242-9720 entitled, "Contracting Officer's Representative" to replace Ms Ana Diaz with Mr. Dennis Cole;
 4. Revise Section J entitled, "List of Attachments" to incorporate a new COR appointment
- Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Barbara L. Christian		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR		16B. UNITED STATES OF AMERICA	
15C. DATE SIGNED		16C. DATE SIGNED 6/13/2014	

NSN 7540-01-152-8070
Previous edition unusable

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF
	N00014-09-D-0696/0003/02	2	2

NAME OF OFFEROR OR CONTRACTOR
RAYTHEON COMPANY

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Letter as REV 1 at no additional cost to the government under contract N00014-09-D-0696 Task Order 0003.</p> <p>The firm fixed price amount of this effort is \$6,000,000.</p>				

Effective the date of this modification:

1. Section E entitled, "Inspection and Acceptance is hereby deleted in its entirety and revised to read as follows:

SECTION E - Inspection and Acceptance

ONR 0120 Inspection and Acceptance- Order

Inspection and acceptance of deliveries under this order will be accomplished by the Program Officer designated below, who shall have thirty (30) days after delivery for acceptance.

Program Executive Office
Integrated Warfare Systems
Above Water Sensors Directorate (IWS 2)
Attn: Mr. Dennis Cole,
1333 Issac Hull Avenue SE
Washington Navy Yard DC 20376
Telephone: 202-781-5318
E-Mail: dennis.j.cole@navy.mil

2. Section G entitled, "Contract Administration Data" is hereby deleted in its entirety and revised to read as follows:

SECTION G - Contract Administration Data

DFAR 252.232-7006 Wide Area WorkFlow Payment Instructions. (MAY 2013)

(a) *Definitions.* As used in this clause-

Department of Defense Activity Address Code (DoDAAC) is a six position code that uniquely identifies a unit, activity, or organization.

Document type means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

Local processing office (LPO) is the office responsible for payment certification when payment certification is done external to the entitlement system.

(b) *Electronic invoicing.* The WAWF system is the method to electronically process vendor payment requests and receiving reports, as authorized by DFARS 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(c) *WAWF access.* To access WAWF, the Contractor shall-

(1) Have a designated electronic business point of contact in the System for

Contract N00014-09-D-0596
Task Order 0003
Modification 02
Page 1 of 7

Award Management at <https://www.acquisition.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this web site.

(d) *WAWF training.* The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the "Web Based Training" link on the WAWF home page at <https://wawf.eb.mil/>

(e) *WAWF methods of document submission.* Document submissions may be via web entry, Electronic Data Interchange, or File Transfer Protocol.

(f) *WAWF payment instructions.* The Contractor must use the following information when submitting payment requests and receiving reports in WAWF for this contract/order:

(1) *Document type.* The Contractor shall use the following document type(s).

2-in-1.

Note: If a "Combo" document type is identified but not supportable by the Contractor's business systems, an "Invoice" (stand-alone) and "Receiving Report" (stand-alone) document type may be used instead.)

(2) *Inspection/acceptance location.* The Contractor shall select the following inspection/acceptance location(s) in WAWF, as specified by the contracting officer.

Destination/Destination.

(3) *Document routing.* The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Routing Data Table*

<i>Field Name in WAWF</i>	<i>Data to be entered in WAWF</i>
---------------------------	-----------------------------------

Pay Official DoDAAC	HQ0338
---------------------	--------

Issue By DoDAAC	N00014
-----------------	--------

Admin DoDAAC	S2103A
--------------	--------

Inspect By DoDAAC	
-------------------	--

]

Ship To Code

Contract N00014-09-D-0696

Task Order 0003

Modification 02

Page 2 of 7

Ship From Code

Mark For Code

Service Approver (DoDAAC) S2103A

Service Acceptor (DoDAAC) N00014

Accept at Other DoDAAC

LPO DoDAAC

DCAA Auditor DoDAAC N/A

Other DoDAAC(s)

(4) *Payment request and supporting documentation.* The Contractor shall ensure a payment request includes appropriate contract line item and subline item descriptions of the work performed or supplies delivered, unit price/cost per unit, fee (if applicable), and all relevant back-up documentation, as defined in DFARS Appendix F, (e.g. timesheets) in support of each payment request.

(5) *WAWF email notifications.* The Contractor shall enter the e-mail address identified below in the "Send Additional Email Notifications" field of WAWF once a document is submitted in the system.

dennis.j.cole@navy.mil

(g) *WAWF point of contact.* (1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

Not applicable

(2) For technical WAWF help, contact the WAWF helpdesk at 866-618-5988.

ONR 0046 Invoices

Invoices shall be submitted in accordance with Section G of the basic contract or ordering agreement.

ONR 0118 Type of Order

This is a firm fixed price task order.

ONR 5252.304-9722 Electronic Document Access (APR 2012)

Contract N00014-09-D-0696

Task Order 0003

Modification 02

Page 3 of 7

The Office of Naval Research (ONR) award and modification documents are now available via the Electronic Document Access System (EDA). EDA is a web-based system that provides secure online access, storage, and retrieval of awards and modifications to Department of Defense (DoD) employees and vendors. An ONR representative will enter the contact information for vendor notification of up to two (2) vendor representatives into EDA for each contract. Once an executed ONR contract document is loaded into EDA, the designated vendor representative(s) will automatically receive an email notification that the document is available in EDA. The vendor is responsible for retrieving the document from EDA; ONR will no longer mail hard copies to vendors.

Each vendor is responsible for providing ONR with their vendor representatives' contact information as well as any changes to their contact information for each ONR contract. Vendors shall submit EDA vendor representative contact information changes to the cognizant ONR Contract Specialist or Contracting Officer of each ONR contract. Each request to change EDA vendor representative contact information shall include the following information:

1. Contract number
2. Email address
3. First name
4. Last name
5. Organization

Users must be aware that EDA inactivates user accounts for non-use after 90 days. Failure to use your account will result in inactivation. A password reset and EDA POC approval is required to reactivate account.

3. Section H entitled, "Special Contract Requirements" is hereby deleted in its entirety and revised to read as follows:

SECTION H - Special Contract Requirements

ONR 0038 Comprehensive Subcontracting Plan

The Contractor's Comprehensive Subcontracting Plan entitled "Raytheon Comprehensive Small Business Subcontracting Plan for Utilization of Small, Small Disadvantaged, women-owned small Business, Veteran Owned Small Business, Service Disabled Veteran Owned Small Business, Small Business, Small Business in Hub Zones and for Historically Black Colleges and Minority Institutions for Department of Defense Contracts dated 26 September 2012, effective from 01 October 2012 through 30 September 2013 is hereby incorporated by reference.

ONR0070 Consent to Subcontract and/or Hire Consultants

The services of the following subcontractors and/or consultants have been identified as necessary for the performance of this contract:

General Dynamics

Contract N00014-09-D-0696

Task Order 0003

Modification 02

Page 4 of 7

The preceding listing of subcontracts were evaluated during negotiations as required by paragraph (j) of the contract clause at FAR 52.244-2 entitled "Subcontracts" and therefore do not require consent in accordance with paragraphs (c) and (e) of the Subcontracts clause. This consent is based upon the information submitted by the prime contractor in accordance with FAR 52.244-2 (e) (1) (i) through (vii).

For additional subcontracts beyond those listed above, the Contracting Officer's written consent to subcontract is only required in accordance with paragraphs (b), (c), and (d) of FAR 52.244-2.

ONR has delegated contract administration to the Administrative Contracting Officer (ACO) at the cognizant Contract Administration Office (Block 7 of this DD Form 1155 or Block 6 of the Standard Form 26). Although ONR has provided authority to subcontract for the preceding list of subcontracts, ONR is not retaining any post award function for the consent of subcontracts in accordance with FAR 42.302(a)(51). Therefore, any consents to subcontract required in accordance with FAR 52.244-2 after contract award shall be submitted to the ACO for action.

ONR 5252.237-9705 Key Personnel (DEC 1988)

(a) The Contractor agrees to assign to the contract tasks those persons whose resumes were submitted with its proposal and who are necessary to fulfill the requirements of the contract as "key personnel". No substitutions may be made except in accordance with this clause.

(b) The Contractor understands that during the first ninety (90) days of the contract performance period, no personnel substitutions will be permitted unless these substitutions are unavoidable because of the incumbent's sudden illness, death or termination of employment. In any of these events, the Contractor shall promptly notify the Contracting Officer and provide the information described in paragraph (c) below. After the initial ninety (90) day period the Contractor must submit to the Contracting Officer all proposed substitutions, in writing, at least thirty (30) days in advance forty-five (45) days if security clearance must be obtained, of any proposed substitution and provide the information required by paragraph (c) below.

(c) Any request for substitution must include a detailed explanation of the circumstances necessitating the proposed substitution, a resume for the proposed substitute, and any other information requested by the Contracting Officer. Any proposed substitute must have qualifications equal to or superior to the qualifications of the incumbent. The Contracting Officer or his/her authorized representative will evaluate such requests and promptly notify the Contractor in writing of his/her approval or disapproval thereof.

(d) In the event that any of the identified key personnel cease to perform under the contract and the substitute is disapproved, the contract may be immediately terminated in accordance with the Termination clause of the contract.

The following are identified as key personnel:

EASR Program Manager, [REDACTED]
Chief Engineer [REDACTED]
Electrical Engineering [REDACTED]

Contract N00014-09-D-0696

Task Order 0003

Modification 02

Page 5 of 7

Mechanical Engineering Lead [REDACTED]
Demonstration Lead [REDACTED]
Software Lead [REDACTED]
Whole Life Engineering [REDACTED]
Systems Engineering Support [REDACTED]

ONR 5252.242-9720 CONTRACTING OFFICER'S REPRESENTATIVE (COR) (SEP 1996)

The COR for this contract is:

Name: **Dennis J. Cole**

**Program Executive Office
Above Water Sensors Directorate (IWS2)
1333 Isaac Hull Avenue SE
Washington Navy Yard DC 20376-0005**

Telephone No: (202) 781-1996

The Alternate COR for this contract is:

None

The COR will act as the Contracting Officer's representative for technical matters, providing technical direction and discussion as necessary with respect to the specification or statement of work, and monitoring the progress and quality of contractor performance. The COR is not an Administrative Contracting Officer and does not have authority to take any action, either directly or indirectly, to change the pricing, quantity, quality, place of performance, delivery schedule, or any other terms and conditions of the contract (or delivery order), or to direct the accomplishment of effort which goes beyond the scope of the statement of work in the contract (or delivery order).

When, in the opinion of the contractor, the COR requests effort outside the existing scope of the contract (or delivery order), the contractor shall promptly notify the contracting officer (ordering officer) in writing. No action shall be taken by the contractor until the contracting officer (or ordering officer) has issued a modification to the contract (or delivery order) or has otherwise resolved the issue.

In the absence of the COR named above (due to reasons such as leave, illness, official travel), all responsibilities and functions assigned to the COR shall be the responsibility of the alternate COR acting on behalf of the COR.

4. Section J entitled, "List of Documents, Exhibits and Other Attachments" is hereby deleted in its entirety and revised to read as follows:

SECTION J - List of Documents, Exhibits and Other Attachments

Attachment Number	Attachment Title	Date	Number of Pages	Cross Reference Materials	Document Version
A	Exhibit A Contract Data Requirements List with Contract Data Requirements List Instructions for Distribution	08/27/2013	11		01
1	Statement of Work	08/27/2013	9		01
2	Report Documentation Page	08/27/2013	1		01
3	Department of Defense Contract Security Classification Specification	08/27/2013	3		01
6	Contracting's Officer's Representative Appointment Letter REV I	06/11/2014	3		01

5. This modification makes no change to the firm fixed price of this task order

6. All other terms and conditions remain unchanged.

CONTRACTING OFFICER'S REPRESENTATIVE
APPOINTMENT LETTER

01 May 2014

From: Lynn Christian
To: Mr. Dennis Cole

Subj: Appointment as Contracting Officer's Representative
(COR)

Ref: (a) DFARS 201.602-2
(b) FAR 3.2
(c) ONRINST 4205

Pursuant to reference (a) you are hereby appointed as the Contracting Officer's Representative (COR) for the administration of the following contract:

Contract Number: N00014-09-D-0696 Task Order 0003

For: "Enterprise Air Surveillance Radar (EASR) Study"

Name of Contractor:

RAYTHEON COMPANY
INTEGRATED DEFENSE SYSTEMS
50 APPLE HILL DRIVE
TEWKSBURY, MA 01876

Contract Period of Performance:

Eighteen (18) months awarded as a single period of performance

1. As COR, you have the specific responsibilities detailed below.

a. Furnish the contractor technical direction and guidance in all aspects of the contract. You may formalize your guidance to the contractor in writing, provided that the written guidance does not affect price or duration of the contract and provided that this guidance contains both a signed acknowledgement from the contractor and the following statement:

"In accepting this technical direction and guidance, the contractor agrees that the price and all other terms and conditions of the contract remain unchanged."

2. As a COR you do not have the authority to direct the contractor how to perform but are empowered to provide guidance as to what of a technical nature is required. If you are unsure whether giving specific instructions falls within your purview, contact the Contracting Officer for guidance before giving instructions to the contractor.

3. During surveillance of contract performance, take care to ensure this contract does not become a personal services contract through your actions or the actions of other government personnel who may assist you in the performance of your duties.

This distinction between surveillance, which is proper and necessary, and supervision, which is illegal, is violated when surveillance becomes supervision and the contractor is told how to perform the contract. Supervision of the contractor must be scrupulously avoided.

4. COR duties include, but are not limited to:

a. Serving as the technical contact through which the contractor can relay his questions and problems of a technical nature to the Contracting Officer.

b. Monitoring the contractor's performance to ensure that inefficient and/or wasteful methods are not utilized and, if they are, alerting the Contracting Officer. Also, input evaluation reports into CPARS.

c. Reviewing and evaluating contractor estimates to perform work under the contract and advising the Contracting Officer accordingly.

d. Over-viewing contractor performance to determine if the percentage of work performed reasonably corresponds to the percentage of funds expended and alerting the Contracting Officer of any problems.

e. Reviewing contractor progress and financial reports and completing the certification of inspection and acceptance of

services performed through the Wide Area Work Flow (WAWF) system at the end of the contract.

f. Alerting the Contracting Officer to any potential performance problems. If the performance schedule slips, determine the reasons and work with the Contracting Officer to eliminate the problem. Monitor schedule recovery in accordance with the agreed-upon plan.

g. Furnishing the Contracting Officer with contractor requests for changes, deviations, or waivers, including any supporting analysis and other required documentation.

5. Notwithstanding the duties listed above, CORs do not possess the authority of a Contracting Officer, and therefore must not alter the terms and conditions of the basic contract.

6. Relationships between contractors and CORs must be beyond reproach. Therefore, strict compliance with DoD Directive 5500.7 regarding standards of conduct and conflict of interest is required. If you are not familiar with these instructions, please read them as soon as possible. If you need copies, please contact ONR BD00CC, Corporate Counsel.

7. This appointment is effective through the life of the contract, unless you are otherwise relieved

8. COR authority may not be redelegated. However, an "Alternate COR" (ACOR) may be nominated and appointed by the PCO to act only in the absence of the primary COR. The nomination and appointment criteria and procedures for the ACOR are the same as those for the COR.



COR/ACOR Signature (which constitutes
Acceptance of appointment)


5/1/2014
Date

Note: Please sign one copy of this memorandum in the space provided above, and upload into the CORT Tool.

Contract Distribution Sheet

CR Number: I4PR01902-01
Contract Number: N0001409D06960003
Specialist: NO NEG ONR: BD252
Modification Number: 02

Distribution Date: JUN 24 2014

Distributed By: 

___ PCO, ONR Arlington (Original)

___ Contractor (Duplicate Original)

Short Contractor Code and Address:

RAYN
RAYTHEON COMPANY
RAYTHEON COMPANY - IDS 50 APPLE HILL DR
TEWKSBURY, MA 01876-6114 US

EDA only

___ ACO

ACO MILSCAP Code and Address:

S2205A
DCMA RAYTHEON-S2205A
50 APPLE HILL DRIVE T2FR2
TEWKSBURY, MA 01876 US

___ Payment Office

DODAAD Code and Address:

HQ0337
DFAS COLUMB. NORTH ENTL-HQ0337
PO BOX 182266
COLUMBUS, OH 43218-2266 US

___ ONR:
00CC

Program Officer: DELONG, MS. BETSY B, ONR Other

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 03		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. 15PR01648-00	
5. PROJECT NO. (If applicable)		6. ISSUED BY Office of Naval Research ONR251 Lynn Christian 703 696 1575 Email: Lynn.Christian@navy.mil 875 North Randolph Street Suite W1275 Arlington VA 22203		7. ADMINISTERED BY (If other than Item 6) SCD-C DCMA RAYTHEON 50 APPLE HILL DRIVE T2FR2 TEWKSBURY MA 01876-1198	
8. NAME AND ADDRESS OF CONTRACTOR (No, street, county, State and ZIP Code) RAYTHEON COMPANY 50 APPLE HILL DR TEWKSBURY MA 01876		9A. AMENDMENT OF SOLICITATION NO. (x)		9B. DATED (SEE ITEM 11)	
ORIGINAL		10A. MODIFICATION OF CONTRACT/ORDER NO. N00014-09-D-0696 0003		10B. DATED (SEE ITEM 13) 09/24/2013	
		11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS			

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF.
X	D. OTHER (Specify type of modification and authority) This modification is issued in accordance with FAR 43.103(b) unilateral modification

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ 0 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

NAVRIS / SDN Number: 1106197

The purpose of this modification is to revise Section J entitled "List of Attachments" to incorporate Revision 1 to Form DD254 "Department of Defense Contract Security Classification Specification" at no additional cost to the government under contract N00014-09-D-0696 Task Order 0003.

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Barbara L. Christian		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) [Redacted]	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		15C. DATE SIGNED 10/21/2014	

NSN 7540-01-152-8070
Previous edition unusable

STANDARD FORM 33 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

Effective the date of this modification:

1. Section J entitled, "List of Documents, Exhibits and Other Attachments" is hereby deleted in its entirety and revised to read as follows:

SECTION J - List of Documents, Exhibits and Other Attachments

Attachment Number	Attachment Title	Date	Number of Pages	Cross Reference Materials	Document Version
A	Exhibit A Contract Data Requirements List with Contract Data Requirements List Instructions for Distribution	08/27/2013	11		01
1	Statement of Work	08/27/2013	9		01
2	Report Documentation Page	08/27/2013	1		01
3	Department of Defense Contract Security Classification Specification REV 1	10/21/2014	3		03
6	Contracting's Officer's Representative Appointment Letter REV 1	06/11/2014	3		01

5. This modification makes no change to the firm fixed price of this task order

6. All other terms and conditions remain unchanged.

Contract N00014-09-D-0696

Task Order 0003

Modification 03

Page 2 of 2

DEPARTMENT OF DEFENSE CONTRACT SECURITY CLASSIFICATION SPECIFICATION <i>(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort.)</i>				1. CLEARANCE AND SAFEGUARDING SER:154-14 a. FACILITY CLEARANCE REQUIRED <div style="text-align: center;">SECRET</div> b. LEVEL OF SAFEGUARDING REQUIRED <div style="text-align: center;">SECRET</div>																																																																																																																	
2. THIS SPECIFICATION IS FOR: <i>(X and complete as applicable)</i>				3. THIS SPECIFICATION IS: <i>(X and complete as applicable)</i>																																																																																																																	
<input checked="" type="checkbox"/> a. PRIME CONTRACT NUMBER <div style="text-align: center;">N00014-09-D-0696 / 0003</div>		<input type="checkbox"/> a. ORIGINAL <i>(Complete date in all cases)</i> <div style="text-align: center;">20130913</div>		DATE (YYYYMMDD)																																																																																																																	
<input type="checkbox"/> b. SUBCONTRACT NUMBER		<input checked="" type="checkbox"/> b. REVISED <i>(Supersedes all previous specs)</i>		REVISION NO. <div style="text-align: center;">2</div> DATE (YYYYMMDD) <div style="text-align: center;">20141016</div>																																																																																																																	
<input type="checkbox"/> c. SOLICITATION OR OTHER NUMBER		DUE DATE (YYYYMMDD)		<input type="checkbox"/> c. FINAL <i>(Complete item 5 in all cases)</i> DATE (YYYYMMDD)																																																																																																																	
4. IS THIS A FOLLOW-ON CONTRACT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: Classified material received or generated under _____ <i>(Preceding Contract Number)</i> is transferred to this follow-on contract.																																																																																																																					
5. IS THIS A FINAL DD FORM 254? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO. If Yes, complete the following: In response to the contractor's request dated _____, retention of the classified material is authorized for the period of _____.																																																																																																																					
6. CONTRACTOR <i>(Include Commercial and Government Entity (CAGE) Code)</i>																																																																																																																					
a. NAME, ADDRESS, AND ZIP CODE Raytheon Company 50 Apple Hill Drive Tewksbury, MA 01876-0901		b. CAGE CODE <div style="text-align: center;">0AYP7</div>		c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> Defense Security Service (IOFNW) 1 Tech Drive, Suite 330 Andover, MA 01810-2452																																																																																																																	
7. SUBCONTRACTOR																																																																																																																					
a. NAME, ADDRESS, AND ZIP CODE N/A		b. CAGE CODE		c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> N/A																																																																																																																	
8. ACTUAL PERFORMANCE																																																																																																																					
a. LOCATION N/A		b. CAGE CODE		c. COGNIZANT SECURITY OFFICE <i>(Name, Address, and Zip Code)</i> N/A																																																																																																																	
9. GENERAL IDENTIFICATION OF THIS PROCUREMENT Enterprise Air Surveillance Radar concept studies, analysis and risk reduction																																																																																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">10. CONTRACTOR WILL REQUIRE ACCESS TO:</th> <th>YES</th> <th>NO</th> <th colspan="2" style="text-align: left;">11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:</th> <th>YES</th> <th>NO</th> </tr> <tr> <td>a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR A GOVERNMENT ACTIVITY</td> <td></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>b. RESTRICTED DATA</td> <td></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>b. RECEIVE CLASSIFIED DOCUMENTS ONLY</td> <td></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>c. 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12. PUBLIC RELEASE. Any information (classified or unclassified) pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release ☐ Direct ☒ Through (Specify)

Office of Naval Research, Ms. Betsy DeLong, ONR 31, One Liberty Center, 875 N. Randolph Street, Arlington, VA 22203-1995

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)* for review.
*In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. SECURITY GUIDANCE. The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. (Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)

* This DD254 is being revised include COMSEC requirements.

- 10.g: Personnel shall be NATO BRIEFED (for SIPRNET purposes only) prior to establishing a SIPRNET account if access is required at a facility that uses a NATO accredited network.

- 11.c: Only IS's approved by DSS shall be used to generate classified information.

1. Information generated under this contract shall be classified in accordance with:

OPNAVINST 5513.8 SCG ID#08-03.1 Unclassified ECM/ECCM, General 04/1989

OPNAVINST 5513.8 SCG ID# 08-18.1 Unclassified RADAR, GENERAL 11/12/1998

DoD M-5200.01 Volume 4, DoD Information Security Program: Controlled Unclassified Information (CUI) of 2/24/12

Additionally, all classified material derived from other classified sources will perpetuate the highest classification and any special caveats pertaining thereto.

2. Document preparation and distribution shall be only as prescribed by the Program Officer.

3. The attached FOUO and Intelligence Information Sheets are hereby made a part of this DD 254.

4. To obtain documentation/information submit requests to official listed in 16.a below.

5. Forward copies of any subcontractor DD254's issued incident to this contract to the official shown in item 16.a below.

ONR Program Officer:

Office of Naval Research,

Ms. Betsy DeLong, ONR 31

OLC, 875 N. Randolph Street,

Arlington, VA 22203-1995

(703) 588-0069; Email: betsy.delong@navy.mil

PEO-IWS Program Officer:

Program Executive Office-Integrated Warfare System 2

Mr. Dennis J. Cole

1333 Isaac Hull Avenue SE, Building 197

Washington Navy Yard, DC 20376

(202) 781-1996; Email: dennis.j.cole@navy.mil

14. ADDITIONAL SECURITY REQUIREMENTS. Requirements, in addition to ISM requirements, are established for this contract. ☐ Yes ☒ No
(If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies the additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is needed.)

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. ☐ Yes ☒ No
(If Yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if additional space is needed.)

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL

Diana Pacheco [diana.pacheco@navy.mil]

b. TITLE

Contracting Officer for Security Matters

c. TELEPHONE (Include Area Code)

(703) 696-8177

d. ADDRESS (Include Zip Code)

Office of Naval Research

One Liberty Center, 875 N. Randolph Street

Arlington, VA 22203-1995

e. SIGNATURE

17. REQUIRED DISTRIBUTION

☒ a. CONTRACTOR

☐ b. SUBCONTRACTOR

☒ c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR

☐ d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION


☐ e. ADMINISTRATIVE CONTRACTING OFFICER

☒ f. OTHERS AS NECESSARY ONR 31, 43, 25

Contract Distribution Sheet

CR Number: 15PR01848-00
Contract Number: N0001409D06960003
Specialist: NO NEG ONR: BD252
Modification Number: 03

Distribution Date: OCT 21 2014

Distributed By: 

___ PCO, ONR Arlington (Original)

___ Contractor (Duplicate Original)

EDA only

Short Contractor Code and Address:

RAYN
RAYTHEON COMPANY
RAYTHEON COMPANY - IDS 50 APPLE HILL DR
TEWKSBURY, MA 01876-6114 US

___ ACO

ACO MILSCAP Code and Address:

S2205A
DCMA RAYTHEON-S2205A
50 APPLE HILL DRIVE T2FR2
TEWKSBURY, MA 01876 US

___ Payment Office

DODAAD Code and Address:

HQ0337
DFAS COLUMB. NORTH ENTL-HQ0337
PO BOX 182266
COLUMBUS, OH 43218-2266 US

___ ONR:
00CC

Program Officer: DELONG, MS. BETSY B, ONR Other